

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 December 2004 (23.12.2004)

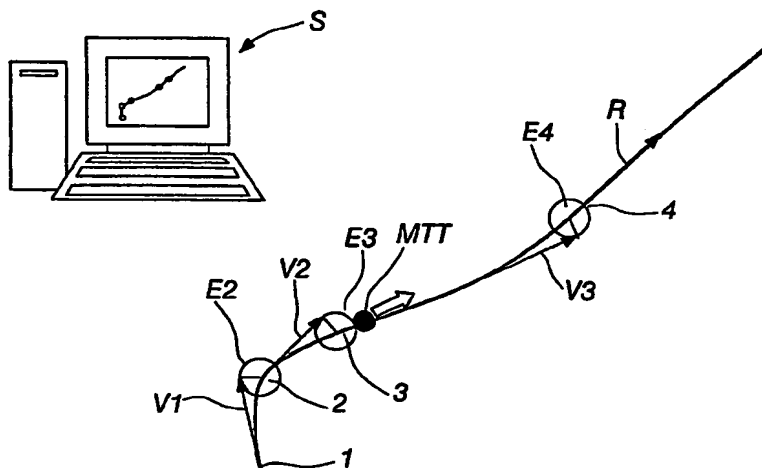
PCT

(10) International Publication Number
WO 2004/111677 A1

- (51) International Patent Classification⁷: **G01S 5/00**, (74) Agent: **Leltzinger Oy**; Tammasaarenkatu 1, FI-00180 Helsinki (FI).
H04Q 7/38 // 7/32, 7/22
- (21) International Application Number: **PCT/FI2004/050088**
- (22) International Filing Date: **10 June 2004 (10.06.2004)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
20035094 **12 June 2003 (12.06.2003)** **FI**
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **A METHOD AND AN ARRANGEMENT FOR ESTIMATING THE POSITION OF A MOBILE TERMINAL WITH A PREDICTION METHOD, AND A MOBILE TERMINAL**



(57) Abstract: A method an arrangement to reduce amount data to be sent in a tracking system of a mobile station (MTT) having a positioning device to obtain positioning data, and the mobile station (MTT) and the server (S) perform the following steps: the mobile station (MTT) sends its dynamic state parameters including at least the position and velocity, which are derived from the positioning measurements, to server (S), the mobile station (MTT) computes an error criterion based on said sent dynamic state and current dynamic state, which is derived from new positioning measurements, such that the error criterion is calculated based on at least sent and current velocities, the mobile station (MTT) sends a set of new dynamic state parameters, when the said error criterion is over a predefined limit.



Published:

— *with international search report*

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